

GreenR Enzyme All Purpose Cleaner QualChem Products Limited

Version No: 2.12

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: **14/02/2023** Print Date: **14/02/2023** S.GHS.NZL.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	GreenR Enzyme All Purpose Cleaner
Synonyms	Not Available
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Jse according to manufacturer's directions.
--------------------------	---

Details of the manufacturer or supplier of the safety data sheet

Registered company name	QualChem Products Limited
Address	81 Ngaumutawa Road, Masterton 5810 New Zealand
Telephone	06 370 1950
Fax	06 370 2270
Website	www.qualchem.co.nz
Email	sales@qualchem.co.nz

Emergency telephone number

Association / Organisation	National Poisons Centre
Emergency telephone numbers	0800 764 766
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Sensitisation (Respiratory) Category 1, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	8.3A, 6.5A (respiratory), 6.5B (contact)

Label elements

Hazard pictogram(s)





Signal word

Dange

Hazard statement(s)

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

Precautionary statement(s) Prevention

	
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P272	Contaminated work clothing should not be allowed out of the workplace.

Version No: **2.12** Page **2** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight] Name	
9001-62-1*	<1	lipase
9014-01-1*	<1	proteinase, Bacillus licheniformis serine
Legend:	Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description	of first	aid measure	s
-------------	----------	-------------	---

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- $\mbox{\Large \ \ }$ There is no restriction on the type of extinguisher which may be used.
- ► Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Advice for firefighters

Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	Non combustible. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6 Accidental release measures

Version No: **2.12** Page **3** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	► Clean up all spills immediately.
Major Spills	Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. DO NOT allow clothing wet with material to stay in contact with skin
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	▶ Polyethylene or polypropylene container.
Storage incompatibility	None known

SECTION 8 Exposure controls / personal protection

Not Available

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace	proteinase, Bacillus	Subtilisins (Proteolytic enzymes, as	Not	Not	0.00006	(skin) - Skin absorption (rsen)
Exposure Standards (WES)	licheniformis serine	100% pure crystalline enzyme)	Available	Available	mg/m3	- Respiratory sensitiser

Emergency Limits

Ingredient	TEEL-1 TEEL-2			TEEL-3
GreenR Enzyme All Purpose Cleaner	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
lipase	Not Available		Not Available	

Not Available

Exposure controls

serine

proteinase, Bacillus licheniformis

Personal protection	
Eye and face protection	▶ Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. NOTE: The material may produce skin sensitisation in predisposed individuals.
Body protection	See Other protection below
Other protection	▶ Overalls.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Green		
Physical state	Liquid Relative	e density (Water = 1)	Not Available

Version No: **2.12** Page **4** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

Odour	Fragrant	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	9	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	► Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information	on	toxicolog	nical	effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'.
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

GreenR Enzyme All Purpose Cleaner	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY		IRRITATION
lipase	Intraperitoneal (mouse) LD50: 833 mg/kg ^[2]		Not Available
	Intraperitoneal (rat) LD50: 630 mg/kg ^[2]		
	Intravenous (Mouse) LD50: 127 mg/kg ^[2]		
	Intravenous (rat) LD50: 104 mg/kg ^[2]		

Version No: **2.12** Page **5** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

	TOXICITY	IRRITATION	
proteinase, Bacillus licheniformis serine	Oral (Rat) LD50: 3700 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]	
		Skin: adverse effect observed	d (irritating) ^[1]
Legend:	Nalue obtained from Europe ECHA Registered Subst specified data extracted from RTECS - Register of Toxic	•	ed from manufacturer's SDS. Unless otherwise
GreenR Enzyme All Purpose	Allergic reactions involving the respiratory tract are usual Attention should be paid to atopic diathesis, characterise	ed by increased susceptibility to nasa	, ,
Cleaner	lymphocytes) may be involved. The following information refers to contact allergens as a		f the IgG type; cell-mediated reactions (T is product.
Cleaner proteinase, Bacillus licheniformis serine	lymphocytes) may be involved.	a group and may not be specific to thi	0 31 /
proteinase, Bacillus	lymphocytes) may be involved. The following information refers to contact allergens as a	a group and may not be specific to thi	5 31 7
proteinase, Bacillus licheniformis serine	lymphocytes) may be involved. The following information refers to contact allergens as a No significant acute toxicological data identified in literat	a group and may not be specific to thi	is product.
proteinase, Bacillus licheniformis serine Acute Toxicity Skin Irritation/Corrosion	lymphocytes) may be involved. The following information refers to contact allergens as a No significant acute toxicological data identified in literat	a group and may not be specific to thi ture search. Carcinogenicity	is product.
proteinase, Bacillus licheniformis serine Acute Toxicity	lymphocytes) may be involved. The following information refers to contact allergens as a No significant acute toxicological data identified in literat	a group and may not be specific to thi ture search. Carcinogenicity Reproductivity	is product.

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

GreenR Enzyme All Purpose Cleaner	Endpoint	Test Duration (hr)	Species	Value	Sour	ce
	Not Available	Not Available	Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	Species	Va	lue	Source
	NOEC(ECx)	72h	Algae or other aquatic plan	ts 38	.1mg/l	2
lipase	EC50	72h	Algae or other aquatic plan	ts 94	.2mg/l	2
	EC50	48h	Crustacea	>2	62.3mg/l	2
	LC50	96h Fish		>2	62.3mg/l	2
	Endpoint	Test Duration (hr)	Species	Va	llue	Source
proteinase, Bacillus licheniformis serine	NOEC(ECx)	504h	Crustacea	0.0	0008mg/l	2
	EC50	72h	Algae or other aquatic plan	ts 0.2	29mg/l	2
	EC50	48h	Crustacea	0.0)9mg/l	2
	LC50	96h	Fish	8.2	2mg/l	2
Legend:			ECHA Registered Substances - Eco C Aquatic Hazard Assessment Dat	•		•

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Version No: **2.12** Page **6** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
- Recycle wherever possible.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
lipase	Not Available
proteinase, Bacillus licheniformis serine	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
lipase	Not Available
proteinase, Bacillus licheniformis serine	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

lipase is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

proteinase, Bacillus licheniformis serine is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
--------------	--------------------------------------	------------	------------	--

Version No: **2.12** Page **7** of **7** Issue Date: **14/02/2023**

GreenR Enzyme All Purpose Cleaner

Print Date: 14/02/2023

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	14/02/2023
Initial Date	10/03/2021

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Powered by AuthorITe, from Chemwatch.